United Nations ST/SG/AC.10/C.3/2015/9

Secretariat

Distr.: General
23 March 2015

Original: English

Committee of Experts on the Transport of Dangerous Goods and on the Globally Harmonized System of Classification and Labelling of Chemicals

Sub-Committee of Experts on the Transport of Dangerous Goods

Forty seventh session
Geneva, 22 – 26 June 2015
Item 5 (b) of the provisional agenda
Transport of gases: miscellaneous

Insertion of new ISO standards in 6.2.2

Transmitted by the International Organisation for Standardisation (ISO)[1]

Introduction

1. This proposal concerns the introduction of two ISO standards and one ISO technical report into section 6.2.2. They all concern valves and the reference and titles are:

ISO 14246:2014	Gas cylinders – Cylinder valves – Manufacturing tests and examinations
ISO 22434:2006	Transportable gas cylinders – Inspection and maintenance of cylinder valves
ISO/TR 11364:2012	Gas cylinders – Compilation of national and international valve stem/gas cylinder neck threads and their identification and marking system

The usual arrangements have been made with the Secretariat to circulate PDF copies of these documents to the experts.

[1] In accordance with the programme of work of the Sub-Committee for 2015–2016 approved by the Committee at its seventh session (see ST/SG/AC.10/C.3/92, paragraph 95 and ST/SG/AC.10/42, para. 15).

Proposal 1

2. Insert the following row at the end of the table in 6.2.2.3 *Service equipment*

ISO 14246:2014	Gas cylinders – Cylinder valves – Manufacturing tests and examination	Until further notice

Justification for Proposal 1

3. Valves are crucial to safety in transport and use. The effectiveness and durability of a design type of valve in UN pressure receptacles is established by the standard ISO 10297 which covers the specification and type testing. Until now however, there are no requirements in the Regulations for the initial inspection and tests for valves. This standard fills that gap and ensures that the properties specified in the type approval are present in every valve.

Proposal 2

4. Insert the following row at the end of the table in 6.2.2.4 *Periodic inspection and test*

ISO 22434:2006	Transportable gas cylinders – Inspection and maintenance of cylinder valves	Until further notice

Justification for Proposal 2

5. In the Model Regulations the requirements for periodic inspection and test of valves are given in 6.2.1.6 (e) as:

> Check of service equipment, other accessories and pressure relief devices, if to be reintroduced into service.

This standard gives the details of the procedures necessary to inspect and test and if necessary, repair or refurbish valves, before retuning them into service. This standard is recommended as a significant step forward in ensuring that valves are fit for continued service in UN pressure receptacles.

Proposal 3

6. In 6.2.2.7.4 add the following new Note (shown underlined) after paragraph (m).

6.2.2.7.4 The following manufacturing marks shall be applied:

(m) Identification of the cylinder thread (e.g. 25E). This mark is not required for closed cryogenic receptacles;

NOTE: *Information on marks that may be used for identifying threads for cylinders is given in ISO/TR 11364, Gas cylinders – Compilation of national and international valve stem/gas cylinder neck threads and their identification and marking system.*

(n) The manufacturer's …

Justification for Proposal 3

7. Although ISO has published standards for two sizes of valve stem/cylinders neck threads – the 25E and 17E – many other threads are used and are published in national standards. ISO/TR 11364 gives 118 thread marks and the standards in which the threads are defined. It is expected that this technical report will be revised from time to time as more information is collected. Therefore, the reference is given without a date. Undated references are rarely used in the Model Regulations, but in this case the document is only a source of information and does not have requirements. The use of this document is voluntary and there is no intention to limit the choice of marks since the document does not contain all the threads in use.